# KENWOOD

KRC-609 KRC-509S CASSETTE RECEIVER

# **INSTRUCTION MANUAL**

AMPLI-TUNER-LECTEUR DE CASSETTE

# MODE D'EMPLOI

**RADIO CASSETTE** 

# MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.

#### For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KRC-609/509S Serial number

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# Safety precautions

# **AWARNING**

# To prevent injury or fire, take the following precautions:

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- When extending the ignition, battery, or ground wires, make sure to use automotivegrade wires or other wires with a 0.75mm<sup>2</sup> (AWG18) or more to prevent wire deterioration and damage to the wire coating.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Make sure not to get your fingers caught between the faceplate and the unit.
- Be careful not to drop the unit or subject it to strong shock.
- The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.
- If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

# **ACAUTION**

# To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

# IMPORTANT INFORMATION About the disc changer to be connected:

To connect a disc changer having the "O-N" switch to this unit, set the "O-N" switch to "N"

To connect a disc changer having no "O-N" switch to this unit, the converter cord CA-DS100 and/or switching adapter KCA-S210A are required as options.

If a model with no "O-N" switch is connected, some unavailable functions and information that cannot be displayed are generated, such as the DNPS, DNPP, Magazine random play, and CD Text display. Note that none of the KDC-C100, KDC-C302, C205, C705, and non-Kenwood CD changers can be connected.

# **ACAUTION**

You can damage both your unit and the CD changer if you connect them incorrectly.

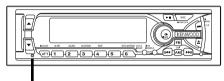
Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

# Safety precautions

# NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.



Reset button

- Characters in the LCD may become difficult to read in temperatures below 41 °F (5 °C).
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

# Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

# Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.

# **ACAUTION**

Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

#### **FCC WARNING**

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

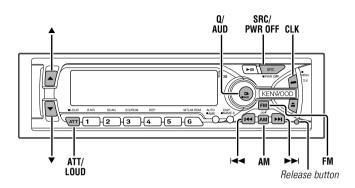
#### Cleaning the Tape Head

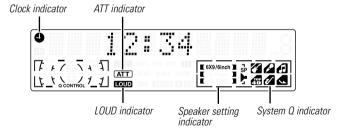
After you have listened to many cassettes over a long period of time, magnetic powder from the tapes and dust accumulates on the tape head, causing noise and a deterioration in sound quality. Clean the tape head using a cleaning tape or cleaning kit designed for use in car audio systems.

# Handling Cassette Tapes

- Do not play a cassette whose tape has gone slack. In such a case, wind it tight using a pencil or the like in one of the spools.
   Playing slack cassette tapes can result in the tape tangling around the capstan and/or pinch rollers, causing trouble.
- Do not play a deformed cassette or one whose label is starting to come off, as it can cause the unit to malfunction.
- Do not leave tapes in hot places, such as on dashboards and other spots exposed to direct sunlight, or near heater outlets. They can deform the cassette.
- Avoid using extremely long cassette tapes, such as 100-minute-long tapes. Such tapes are very thin, and can tangle easily around the pinch rollers or other parts inside the unit, causing unit failure.
- Remove a cassette tape from the unit when not listening to it for a while. If you leave a tape in the unit too long, it may stick to the tape head and cause unit malfunction.

# General features





#### Power

#### Turning on the power:

Press the SRC (source) button.

#### NOTE

Turn the power on before carrying out the following procedures.

#### Turning off the power:

Press the PWR OFF button for at least one second.

#### NOTE

The status of the Security Code function (page 20) is displayed whenever the power is switched on.

"CODE ON": Security Code has been registered "CODE OFF": Security Code has not been registered

#### Volume

#### Increasing Volume:

Press the **A** button to turn up the volume.

#### Decreasing Volume:

Press the ▼ button to turn down the volume.

#### Attenuator

This function allows you to turn down the volume quickly.

#### Turning Attenuator On/Off:

Press the ATT button to switch the attenuator on and off. When the attenuator is on, the ATT indicator blinks. When the attenuator is off, the volume returns to the original level.

# NOTE

Turning the volume up, or turning it all the way down deactivates the attenuator function.

# General features

#### Switching Modes

#### Switching Modes:

Each time you press the SRC (source) button, the mode switches as follows:

Tuner mode

Tape mode

External disc control mode 1

External disc control mode 2 / AUX mode

Standby mode

#### Selecting standby mode:

Press the SRC button repeatedly and switch to "ALL OFF". When "ALL OFF" is displayed, the standby mode is activated. The standby mode turns all functions off while leaving the power to the unit on. Use this mode when you want to have the display illuminated but don't want to listen to anything.

#### NOTE

- The mode switches to the next mode from any mode which cannot be used.
- The external disc control mode will differ depending on the unit that is connected.
- To enable the selection of External disc control mode 2/AUX mode, you should connect optional switching adapter KCA-S210A (which allows you to select both External disc control mode 2 and AUX mode) or CD changer (KDC-CPS87, KDC-CX87, KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) or switching adapter CA-C1AX (which allows you to select AUX mode only).

During the AUX mode, "AUX" (or AUX-name display) will show in the display. When the CA-C1AX is being used, the AUX Mode will replace the External Disc Control Mode.

# NOTE Selecting AUX-name display

Pressing the DISP button for at least two seconds during the AUX mode, AUX-name display is blinked for AUX-name selection mode.

Pressing I◄◀ or ►►I button during this mode allows you to select "AUX" , "TV" , "VCP" , "GAME" or "PORTABLE" in the AUX mode. The AUX-name selection mode can be exited by pressing the DISP button or doing nothing for 10 seconds.

#### Loudness

This function amplifies low and high tones when the volume is turned down.

The LOUD indicator lights up when the loudness function is on.

#### Turning Loudness On/Off:

Press the LOUD button for at least one second to switch the loudness on and off.

# Audio Control Setting

Adjust various parameters of sound quality.

1 Press the AUD button for at least one second to enter the control mode.

#### 2 Selecting mode

Press either the FM or AM button.

Each time the button is pressed, the adjustment mode will change as follows:

Pressing the FM button advances the display, and pressing the AM button reverses it.

Bass Volume Offset
Middle Fader
Treble Balance

# NOTE | Source tone memory

Each source (tape, CD, MĎ, FM, AM and disc changer) has its own memory in which to store the bass, middle, and treble tone settings.

The settings made for a particular source are recalled automatically whenever you use that source (for example, FM mode uses the tone settings made for FM, AM for AM, etc.).

#### 3 Adjust each mode

Press the I◄◄/▶►I button.

Look at the table to adjust the mode being displayed.

Adjustment mode	Operation of Audio control button	
(Display)	l <b>⊲⊲</b> button	<b>▶</b> ► button
Bass ("Bass")	Bass decreased.	Bass increased.
Middle("Middle")	Middle decreased.	Middle increased.
Treble("Treble")	Treble decreased.	Treble increased.
Balance("Balance")	Left channel emphasized.	Right channel emphasized.
Fader ("Fader")	Rear channel increased.	Front channel increased.
Volume Offset ("V Offset")	The sound level of each source decreased.	The sound level of each source increased.

4 Press the AUD button to end the control mode.

#### NOTE

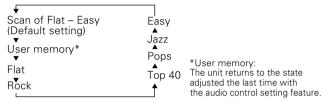
Determining the parameters in the audio control setting would clear all the adjustments made in the System Q and they are replaced with the values in the audio control setting.

#### System Q

You can recall the best audio setting preset for different types of the music.

#### Switching the Preset Sound Setting:

Each time you press the Q button, the preset sound setting switches as follows:



As you proceed, each indicator would go on.

#### NOTE

The System Q function changes the values of the following sound quality parameters:

Bass center frequency, bass level, bass quality factor, bass extend, middle center frequency, middle level, middle quality factor, treble center frequency, and treble level.

Their setting values are different depending on the setting of the speaker setting mode.

# General features

#### Speaker Setting

This function allows you to adjust the setting that is recalled with the System Q, according to types of speakers.

- 1 Press the SRC button repeatedly to select the standby mode.

  "ALL OFF" is displayed when the standby mode is selected.
- **2** Press the Q button to enter the speaker setting mode.
- 3 Press either the I◄◄ or ►►I button to select the type of speaker. The setting switches as follows. Off ("SP OFF") / For 6/6x9 in. speaker ("SP 6\*9/6inch") / For 5/4 in. speaker ("SP 5/4inch") / For the OEM speaker ("SP O.E.M")
- **4** Press the Q button to end the speaker setting mode.

#### NOTE

Speaker setting function allows for tuning of bass, middle and treble

# **Clock display**

#### Changing the Clock Display:

Each time you press the CLK button, the display switches between the clock and each mode display.

#### NOTE

The clock indicator lights while the clock is displayed.

# **Theft Deterrent Faceplate**

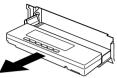
The faceplate can be reversed to hide the control panel or detached form the unit, helping to deter theft.

#### Removing the Faceplate:

- 1 When the control panel is visible: Press the release button.
  - When the control panel has been hidden:

Press the upper side of the faceplate.

2 Holding the center part of the faceplate, pull it out.



**3** Push back the bottom of the faceplate bracket until it locks.

#### **▲**CAUTION

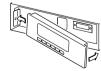
- Do not apply excessive force to the faceplate bracket without attaching the faceplate. Doing so will cause the faceplate bracket to be deformed.
- Do not touch the connector on the faceplate bracket after removing the faceplate. Touching the connector may cause damage to the unit.

#### NOTE

- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.
- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

#### Reattaching the Faceplate:

1 Hold the faceplate so that the control panel faces the front toward you and set the left side of the faceplate in the faceplate bracket.



#### **ACAUTION**

Do not set the right side of the faceplate in the faceplate bracket first, when reattaching the faceplate. Doing so may cause the

connector on the faceplate bracket to malfunction.

2 Press the right side of the faceplate until it locks.

# Hiding the control panel:

- 1 Press the release button and slide open the faceplate.
- 2 Push upward the back of the control panel and reverse the panel.



#### NOTE

The panel cannot be reversed when the faceplate is not attached.

#### Opening the control panel:

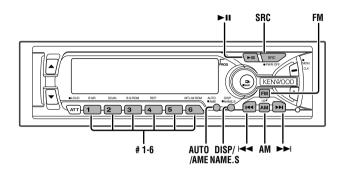
- **1** Press the upper side of the faceplate. The faceplate will open.
- **2** Push the bottom of the control panel and close the faceplate.

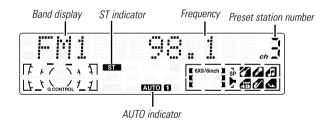


#### NOTE

While the control panel is sliding, only available buttons are  $\triangle$ , ATT,  $\triangle$ ,  $\blacktriangledown$  and SRC.

# Tuner features





#### Tuning

You can choose from three tuning modes: auto seek, preset station seek, and manual. The AUTO 1 indicator lights up when auto seek tuning is selected, and the AUTO 2 indicator lights when preset station seek tuning is selected.

# Selecting Tuning Mode:

Press the AUTO button.

Each time you press the AUTO button, the mode switches as follows.

+

Auto 1 (Auto Seek Tuning)

Auto 2 (Preset Station Seek Tuning)

Manual (Manual Tuning)

#### Tuning:

- Press the SRC (source) button repeatedly to select the tuner mode. "TUNER" is displayed when the tuner mode has been selected.
- 2 Press either the FM or AM button to select the band. Each time you press the FM button, the band switches between the FM1, FM2 and FM3 (which are used for groups of preset stations).
  - Press the AM button to select the AM band.
- 3 Auto Seek Tuning

Press the ▶ button to seek higher frequencies.

Press the ► button to seek lower frequencies.

Preset station seek tuning

Press the ►►I button to move to the next preset station (i.e., the one with the next highest number), and the I◄◄ button to move to the last preset station (i.e., the one with the next lowest number).

Manual Tuning

Press the ►►I button to increase the frequency by one step.
Press the I◄◄ button to decrease the frequency by one step.

NOTE

The ST indicator lights up when stereo broadcasts are being

received.

#### **Station Preset Memory**

Store the frequency of a station. You can then recall that station with a single touch of a button.

- 1 Select the band/station that you want to have stored.
- 2 Press the button (#1-6) that you want to use for the station, for at least two seconds.

The button number blinks once in the display to indicate that the data has been stored.

#### Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

#### NOTE

You can store six stations in each of the FM1, FM2, FM3, and  $\overline{AM}$  bands.

# **Auto Memory Entry**

You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to six frequencies can be stored this way.

- 1 Select the band for auto memory entry.
- 2 Press the AME button for at least two seconds to start auto memory entry.

The numbers of the preset station buttons are shown in order. When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

#### Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

#### Station Name Preset (SNPS)

You can assign names to radio stations with the Station Preset Memory. Up to 32 FM stations and 16 AM stations can be assigned names.

- **1** Adjust the frequency to the station whose name you want to enter.
- 2 Press the NAME.S button for at least two seconds. "NAME SET" is displayed once the station name preset mode is entered.

The cursor will blink in the position where letters are entered.

3 Press either the I◄◄ or ►►I button to move the cursor to the desired position.

The I◄◀ button moves the cursor to the left, and the ▶►I button to the right.

**4** Each time the ►II button is pressed, the characters to be entered change as listed below.

Press the FM or AM button to display the desired character. Characters that can be displayed are as follows.

**5** Continue steps 3 and 4 until all the characters are chosen for the name.

#### NOTE

You can enter up to eight characters for each name.

#### 6 Assigning Names

Press the NAME.S button.

The name of the station is stored in memory, and the Station Name Preset mode ends.

Also, if you make no input for 10 seconds, the name will be stored up to the point that you have entered, and the mode ends.

#### NOTE

- You can assign names to up to 32 FM stations and 16 AM stations
- All the station names will be erased if you press the Reset button
- If you want to change the name of a station, first display the name of the station (following steps 1 and 2 above), then change the letter(s) that you want by following steps 3 and 4.

# Switching Display for Tuner

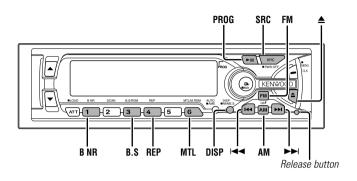
You can change the display used when listening to the radio.

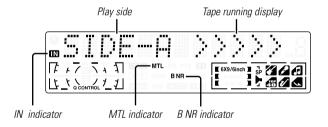
# Changing the Display:

Each time you press the DISP button, the display changes as follows:

Station frequency

SNPS name (only when being preset)





#### **Playing Cassette Tapes**

#### Loading and Playing Cassettes:

Press the release button to slide open the faceplate, showing the cassette insertion slot.

Holding the cassette with the tape exposed to the right, insert it in the slot. The tape will start playing.

Push back the bottom of the faceplate with your hand until it locks.

The IN indicator lights up when a cassette has been loaded.

#### **▲CAUTION**

When inserting a cassette make sure the cassette has been completely drawn in before pushing back the faceplate. Failing to do so might deform the tape.

#### Playing Cassettes Already Loaded:

Press the SRC (Source) button repeatedly to select the tape mode.

"TAPE" is displayed when the tape mode has been selected. The tape will start playing.

#### Listening to the other side:

Press the PROG button.

Tape play switches to the other side.

#### **Ejecting Cassettes:**

Press the release button and slide open the faceplate.

Press the **b**utton.

The tape stops playing and the cassette ejects.

Push back the bottom of the faceplate with your hand until it locks.

#### **ACAUTION**

- When the faceplate has been slid open, it might interfere with the shift lever or something else. If this happens, pay attention to safety and move the shift lever or take an appropriate action, then operate the unit.
- Do not use the unit with the faceplate in the open condition. Doing so will cause breakdown.

#### NOTE

 Remove a cassette from the unit when not listening to it for a while. If you leave it in the unit too long, the tape may stick to the tape head and cause the unit to malfunction.

 While the control panel is sliding, only available buttons are ≜, ATT, ♠, ▼ and SRC.

#### **Fast Forwarding and Rewinding Cassette Tapes**

#### Fast Forwarding Tapes:

Press the FM button.

#### Rewinding Tapes:

Press the AM button.

#### Canceling:

Press the PROG button. Normal tape play will begin.

#### **Using Dolby B Noise Reduction**

Listen to tapes recorded using Dolby B NR.

#### Turning Dolby B Noise Reduction On/Off:

Press the B NR button to switch Dolby B NR on and off. The B NR indicator lights up when it is turned on.

# **Switching Tape Types**

Select type of tape being played.

# Switching Tape Types:

Press the MTL (Metal) button to switch the metal tape indicator on and off and to select the tape type. Turn the MTL indicator off for normal tape (Type I) playback. Turn the MTL indicator on for the following tape types: CrO<sub>2</sub> (Type II) FeCr (Type III) Metal (Type IV) Selecting the wrong tape type may cause sound quality to suffer

#### Using Direct Program Search System (DPSS)

Skip forward or backward to other tracks during playback.

# Skipping to Beginning of Current Track or to Previous Tracks (Rewind DPSS):

Press the **◄** button.

Press once to rewind to the beginning of the current track, twice to rewind to the beginning of the previous track, and so forth

You can skip up to nine tracks.

Playback is continued after the tape is rewound by the indicated number of tracks.

# Skipping to Later Tracks (Fast Forward DPSS):

Press the ►►I button.

Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.

You can skip up to nine tracks.

Playback is continued after the tape is fast forwarded by the indicated number of tracks.

#### NOTE

- During the first five seconds of each track, the previous track is considered the "current" track. If you press the I◄◄ button during that period, the tape rewinds to the beginning of the previous track and not the one you are listening to.
- The DPSS function "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, DPSS may not operate correctly. Furthermore, quiet intervals within a song are detected as "blank spaces" if they last for four seconds or more.

#### Canceling DPSS While It Is Operating:

Press the PROG button.

# Cassette player features

#### Blank Skip

Automatically fast forwards to the beginning of the next track when long blank spaces (10 seconds or more) are detected, continuing tape playback. This function is on, when unit is first powered on.

# Turning Blank Skip Function On/Off:

Press the B.S button to switch the blank skip function on and off.

"B.Skip  $\ensuremath{\mathsf{ON}}\xspace$  is displayed when the blank skip function is turned on.

#### NOTE

- If the blank space contains much noise, the blank skip function may not work right.
- Sections recorded at low levels may trigger the blank skip function if they last for 10 seconds or more.

#### **Music Repeat**

Repeatedly plays the track currently being listened to.

#### Turning Music Repeat On/Off:

Press the REP button to switch music repeat on/off.
"Repeat ON" is displayed when music repeat is turned on.

#### Canceling Music Repeat:

Press either the REP or PROG button.

#### NOTE

Music repeat "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, this function may not operate correctly. Furthermore, sections that are recorded at low levels may trigger the function if they last for four seconds or more.

#### **Switching Display for Cassette Tapes**

Switch the display that appears while tapes are playing.

#### Switching the Tape display:

Each time you press the DISP button, the display during tape play switches as follows:

```
Play side + Tape counter

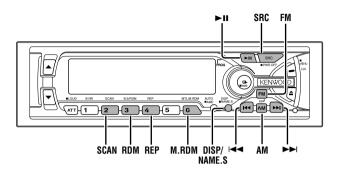
Play side + Tape running

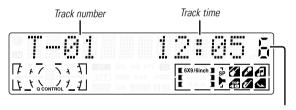
Play side
```

#### NOTE

The tape counter is not exact, but only represents an approximation of the elapsed time.

# External disc control features





Disc number

#### **Playing Disc mode**

This function permits the connection of optional players and the playing of discs.

#### Playing Discs:

Press the SRC button repeatedly to select the external disc control mode.

The disc will start playing.

#### NOTE

The external disc control mode will differ, depending on the unit that is connected.

Mode Display Examples

- "CD" ...when a CD player is connected
- "DISC" ...when a disc changer is connected
- "DISC-1", "DISC-2" ...when two disc changers are connected

#### Pausing and Restarting Disc Play:

Press the ►II button to make the disc pause.

Press the same button again to start play again.

- When one disc has finished playing its last track, the next disc in the changer starts playing. When the last disc in the changer has finished, the player returns to the first disc and starts playing it.
- Disc #10 is displayed as "0".

# External disc control features

#### Switching Display for Discs

Switch the display that appears while discs are playing.

#### Switching Display for Discs:

Each time you press the DISP button, the display during disc play switches as follows:

Tr<u>a</u>ck time

Disc name (DNPS) (only when being preset)

Disc title (Units featuring CD text/MD only)

Track title (Units featuring CD text/MD only)

#### NOTE

- You can give names to discs through the presetting disc name function (page 18). Note that depending on the unit, display may not be possible.
- If you try to display the name of a disc that does not have one,
   "NO NAME" is displayed instead.
- When there is an attempt to display the title of a disc for which the disc title/track title has not been recorded, "NO TEXT" is displayed for CD and "NO TITLE/NO NAME" is displayed for MD.
- If you attempt to display disc title/track title when connecting the CD changer not supported for CD text feature, caution messages such as "NO TEXT" or "Reading" may be displayed.
- Depending on the type of characters of the CD Text, some characters may not be displayable.

# **Fast Forwarding and Reversing Disc Play**

#### Fast Forwarding Disc Play:

Hold down on the ►► button.

Release your finger to play the disc at that point.

#### Reversing Disc Play:

Hold down on the ◄ button.

Release your finger to play the disc at the point.

#### NOTE

You cannot use reverse play between tracks depending on the model being connected. Instead, the reverse play function is canceled when it reaches the beginning of a track, at which point normal play will automatically resume.

#### Track Search

Search forward or backward through the tracks on the disc until you reach the one that you want to listen to.

#### Making a Reverse Track Search:

Press the I◄◀ button to display the desired track number. Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.

Play starts at the beginning of the displayed track number.

# **NOTE** (For disc changers)

Pressing the I◄◀ button while listening to track 1 will only search back to the beginning of that track. The reverse search is not "recycled" to the last track on the disc.

#### Making a Forward Track Search:

Press the **>>**I button to display the desired track number. Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.

Play starts at the beginning of the displayed track number.

# NOTE (For disc changers)

You cannot make a forward track search when listening to the last track on a disc.

#### Disc Search

Search forward or backward through the discs in a disc changer.

#### Making a Reverse Disc Search:

Press the AM button to display the desired disc number. Each time the button is pressed, the displayed disc number decreases by one.

Play starts at the beginning of the displayed disc.

#### Making a Forward Disc Search:

Press the FM button to display the desired disc number. Each time the button is pressed, the displayed disc number increases by one.

Play starts at the beginning of the displayed disc.

#### NOTE

"Load" is displayed when discs are being exchanged on the disc changer.

#### **Track / Disc Repeat**

Repeat playing the track or the disc currently being listened to.

#### Turning Repeat Play On/Off:

Press the REP button to switch repeat track/disc play on and off as follows:

Track Repeat ON

Disc Repeat ON

Repeat OFF

"T-Repeat ON" is displayed and the track number blinks in the display when track repeat is on.

"D-Repeat ON" is displayed and the disc number blinks in the display when disc repeat is on.

NOTE

Repeat play is canceled when you eject the disc.

#### Track Scan

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

#### Starting the Track Scan:

Press the SCAN button. "Scan ON" is displayed and the first 10 seconds of each track will be played, in order. The track number currently being heard blinks in the display.

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# Stopping to Listen to the Track Being Scanned:

Press the SCAN button again to stop the scan and keep on listening to a track normally.

- The track scan function is canceled when you eject the disc.
- The track scan function only scans each track on a disc once.

# External disc control features

#### Random Play

Play all the tracks on the current disc in random order.

1 Press the RDM button to switch random play on and off. "Random ON" is displayed when random play is turned on. The track number will change over and over in the display as the next track is being selected. When the track has been selected, play will begin.

The selected track number blinks in the display as it is being played.

#### NOTE

When all the tracks on a certain disc have been played using random play, the next disc on the changer will start playing using the same function.

2 To change the track being heard, press the ►►I button. Another track will be selected and played.

# NOTE

Random play is canceled when you eject the disc.

#### Magazine Random Play

Play the tracks on all the discs in the disc changer in random order.

- **1** Press the M.RDM button to switch magazine random play on and off.
  - "M.Random ON" is displayed when magazine random play is turned on.  $\,$

The disc and track numbers will change over and over in the display as the next track is being selected.

When the disc/track has been selected, play will begin. The selected disc/track number blinks in the display as it is being played.

2 To change the track being heard, press the ► button. Another disc/track will be selected and played.

#### NOTE

- Magazine random play is canceled when you eject the disc.
- The time needed for random selection depends on the number of discs loaded in the disc magazine.

#### Text / Title Scroll

This function permits the text to be scrolled and the entire text to be displayed. The scrolling method differs depending on the setting of scrolling in the menu.

#### To scroll automatically:

Press the DISP button to display the disc title or the track title. The display of the text will be scrolled repeatedly.

#### To scroll manually:

- **1** Press the DISP button to display the disc title or the track title.
- **2** Pressing the DISP button for at least one second results in one scrolling display of the titles.

#### NOTE

- Please see the menu settings (page 23) about switching between manual scrolling and automatic scrolling.
- You cannot use the text scroll function during magazine random play.

# **Presetting Disc Names (DNPS)**

Store the names of discs to be displayed when played.

1 Play the disc whose name you want to preset.

- This function is not available for disc changers that do not feature the Disc Name Preset function.
- The Disc Name Preset function cannot be used during the

Magazine random play as well as while a disc title or track title is displayed.

2 Press the NAME.S button for at least two seconds. "NAME SET" is displayed and the disc name preset mode is entered.

The cursor blinks in the position where character input can be made.

3 Press either the I◄◄ or ►►I button to move the cursor to the desired position.

The I◄◀ button moves the cursor to the left, and the ▶►I button to the right.

**4** Each time the ►II button is pressed, the characters to be entered change as listed below.

Press the FM or AM button to display the desired character. Characters that can be displayed are as follows.

Alphabet (upper case): A ~ Z

Alphabet (lower case): a ~ z

Numerals and symbols: 0~9@"'`% & \* + -= , . /\< > []

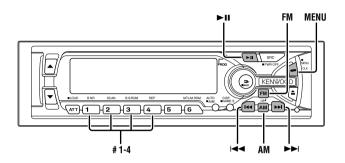
Special characters: á à é è í ì ó ò ú ù Ñ Ç Ṣ ß i IJ

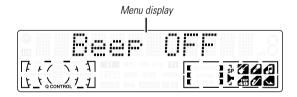
- **5** Continue steps 3 and 4 until all the characters are chosen for the name.
- **6** Press the NAME.S button. The disc name is stored and the disc name preset mode is canceled.

If you make no entry in a 10-second period, the name will be stored with the characters input so far.

- The number of characters and discs whose names can be stored will differ depending on the disc changer that is connected. Please see your disc changer manual for details.
- Discs are identified by their total length and number of tracks. If another disc happens to have the same specifications as one

- that you have already stored a name for, the name will be displayed for it. too.
- If you want to change the name of a disc, repeat steps 1 and 2 to display the name, and then repeat steps 3 and 4 to input the changes.
- Pressing the reset button does not erase the disc names stored in a disc changer.





#### Menu System

You can set the defaults for additional functions in the menu mode. Make a setting for each function, referring to the following operations.

#### 1 Enter the menu mode

Press the MENU button for at least one second. "MENU" is displayed when the menu mode is entered. The function that you can adjust is indicated with the current settings displayed.

#### 2 Selecting function to set

Press the FM button to search through the functions until you see the one you want to adjust in the display.

Press the AM button to search through the functions

backward.
Function items change in the order of features that follow in

the menu system.

Example: If you want to switch the setting of the touch sensor tone function from on to off, first search through the functions until you see "Beep ON" in the display.

#### 3 Changing setting for currently displayed function

Press either the I◀◀ or ▶▶I button.

The setting will change for each function.

Example: The setting of the touch sensor tone will switch from on to off, and "Beep OFF" is displayed.

#### 4 Ending the menu mode

Press the MENU button.

#### NOTE

Make sure to end the menu mode when finished. If you fail to end the menu mode, several functions may not operate properly, including the Traffic Information function and the Alarm function.

#### **Security Code**

When the battery is removed from the unit's power switch, you cannot turn on the unit again unless the preset security

code is input. This function helps prevent theft.

#### NOTE

You must follow steps 1 to 8 to be able to use the Security Code function. Turning off the power during the procedure will deactivate the security code setting.

Once the security code function has been activated, "Security" disappears from the MENU system. Note that it will no longer be possible to cancel this function afterwards.

- 1 Press the SRC button repeatedly to select the standby mode. "ALL OFF" is displayed when the standby mode is selected.
- **2** Select the four digits to use in your security code.

#### NOTE

The four-digit security code is very important, as you will need it to turn the unit on again when the code security function is on. Choose the number carefully and do not forget it (write it down and keep it separately in a safe place).

- **3** Press the MENU button for at least one second. "MENU" is displayed first and then "Security" is displayed.
- 4 Press either the I◀◀ or ►►I button for at least one second. "ENTER" will appear in the display for one second, indicating the code setting mode has been entered. When "CODE" appears in the display, you can start inputting the code.
- Fress the preset button and enter the security code that you have selected in step 2.
  Example: Use "3510" as the security code.

Step	Button to press	# Times pressed	Display
1	#1	4	"3"
2	#2	6	"5"
3	#3	2	"1"
4	#4	1	"0"

- **6** Press the DISP button for at least three seconds. The security code will be set.
  - "RE-ENTER" will appear in the display for one second, asking

- you to enter the code once again for confirmation. When "CODE" appears in the display, you can start inputting the code.
- 7 Press the Preset button and input the security code again.
- 8 Press the DISP button again for at least three seconds. "APPROVED" will appear in the display, with the security code function turning on. From this point on, if the unit is disconnected from the battery, the security code must be entered the first time that the unit's power is turned on. "ENTER" and "CODE" will appear in the display, asking you to input the code.

#### NOTE

If you input an incorrect security code, the code setting mode will be canceled automatically. Follow the steps from 4 to 8 above again.

#### If you press the RESET button or remove the battery:

The first time you turn the unit on again, "CODE" will appear in the display, asking you to input the security code. Repeat steps 7 and 8 above, and input the security code. You can start operating the unit again when "APPROVED" appears in the display.

If you enter the incorrect code, the power will turn off. Enter the correct code to turn the unit on.

#### **Touch Sensor Tone**

This function produces a beep sound that accompanies button operation. It can be switched on or off.

#### Display and setting:

"Beep ON" : Beep setting is on. (Default setting)

"Beep OFF": Beep setting is off.

#### NOTE

The beep sound is not output from the preout jacks.

# Menu settings

#### Manual Time Adjustment

Adjust the time manually.

#### Display and setting:

- 1 Select the display "Clock Adjust" during the selecting function in the menu system.
- 2 Press either the I◄◄ or ►►I button for at least one second to enter the Manual time adjustment mode. The time display will blink.
- Adjusting the hours
   Press the FM button to advance the hours, or press the AM
   button to make the hours go back.
  - Adjusting the minutes
     Press the ►►I button to advance the minutes, or press the I◄◄ button to make the minutes go back.
- 4 Press the MENU button to end the Manual Time Adjustment mode.
  - Exiting the Manual Time Adjustment mode would start the clock counting.

#### **Switching Graphic Display**

This function allows you to turn off the lower part of the display if there is too much information in the display.

#### Display and setting:

"Graphic ON": The display will turn on by using the whole part of the display. (Default setting)

"Graphic OFF": The display will turn on by using only the upper part of the display and the IN indicator

# **Contrast Adjustment**

This adjustment permits easy viewing of the display.

#### Display and setting:

"Contrast 0" - "Contrast 10"

#### NOTE

The initial setting value is "5".

# Function of the KRC-609

#### Selectable Illumination

You can switch the color of the button illumination between green and red.

#### Display and setting:

"Button Green": The color of the illumination is green.

"Button Red": The color of the illumination is red.

#### **Dimmer**

You can dim the display.

#### NOTE

The dimmer function is not available for units if the dimmer wire is not connected.

#### Display and setting:

"Dimmer ON": The dimmer setting is on. (Default setting)

"Dimmer OFF": The dimmer setting is off.

# Clean Reception System Circuit (CRSC) <In FM reception of Tuner mode>

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station.

#### Display and setting:

"CRSC ON": The CRSC is on. (Default setting) "CRSC OFF": The CRSC is off.

#### NOTE

Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned on. In such a situation, turn it off.

#### Text Scroll < In External disc control mode>

This function permits the CD text and MD title to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted.

# Display and setting:

"Scroll Auto": Automatic scrolling
"Scroll MANU": Manual scrolling (Default setting)

# Accessories **External view** Number of items (1) (2) (3) (4) (5) (6) (7)(8)

#### **ACAUTION**

The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

#### Installation Procedure

- 2. Make the proper input and output wire connections for each unit.
- 3. Connect the speaker wires of the wiring harness.
- 4. Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5. Connect the wiring harness connector to the unit.
- 6. Install the unit in your car.
- 7. Reconnect the 

  battery.
- 8. Press the reset button.

#### **▲CAUTION**

- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Insulate unconnected wires with vinyl tape or other similar material.
- Some disc changers need conversion cords for connection. See the section on "Safety Precautions" for details.

# Connecting Wires to Terminals

#### **≜WARNING**

If you connect the ignition wire (red) and the battery wire (vellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

#### **ACAUTION**

When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if vou connect the (+) connector of the left speaker to a front output terminal, do not connect the - connector to a rear output terminal.

To car light control switch

Ignition key

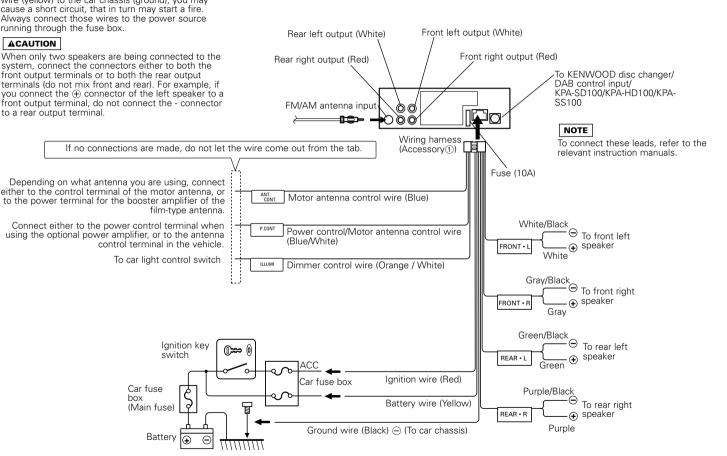
switch

Car fuse

(Main fuse)

Battery

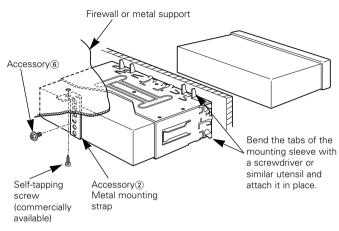
box



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#### Installation

#### ■ Installation

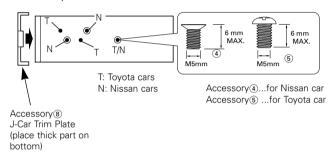


#### NOTE

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

# ■ Installing in Japanese-Made Cars

- 1 Refer to the section "Removing the hard rubber frame (P. 27)" and then remove the hard rubber frame.
- 2 Mount the J-Car trim plate with the thick part at the bottom
- 3 Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.

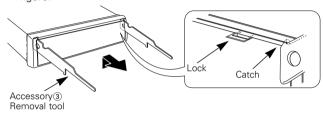


#### **▲**CAUTION

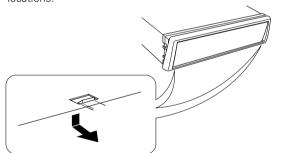
- During installation, do not use any screws except for those provided. The use of different screws might result in damage to the main unit.
- Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

# ■ Removing the hard rubber frame

- 1 Refer to the section "Theft deterrent faceplate (P. 8)" and then remove the faceplate.
- 2 Engage the catch pins on the removal tool and remove the two locks on the upper level. Push upward the frame and pull it forward as shown in the figure.



3 When the upper level is removed, remove the lower two locations.

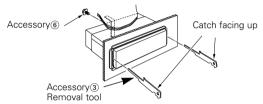


#### NOTE

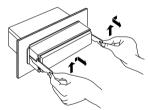
The frame can be removed from the bottom side in the same manner.

# ■ Removing the Unit

- **1** Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.
- 2 Remove the Hex-head screw with integral washer (M4x8) on the back panel.
- 3 Insert the two removal tools deeply into the slots on each side, as shown.



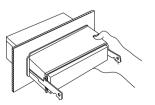
4 Push upward the removal tool toward the top, and pull out the unit halfway whilst pressing towards the inside.



#### **ACAUTION**

Be careful to avoid injury from the catch pins on the removal tool.

**5** Pull the unit all the way out with your hands, being careful not to drop it.

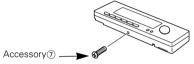


#### Installation

# ■ Locking the faceplate to the unit

If you want to lock the faceplate to the unit so that it does not fall off, follow the directions below.

- 1 Refer to the function "Theft Deterrent Faceplate" (page 8) and remove the faceplate.
- 2 Insert the provided screw into the hole at the center of the bottom side of the faceplate which you have removed from the unit.



- 3 Push back the bottom of the faceplate bracket unit it locks.
- 4 Refer to the section "Theft Deterrent Faceplate (page 8)" and then reattaching the faceplate.

#### **▲**CAUTION

Never insert the taptite screws ( $\varnothing 2 \times 4$  mm) in any other screw holes than the one specified. If you insert it in another hole, it will contract and may cause damage to the mechanical parts inside the unit.

# **Troubleshooting Guide**

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the wires, replace the fuse with one with the same rating.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 4).
Radio reception is poor.	The car antenna is not extended.	Pull the antenna out all the way.
	The antenna control wire is not connected.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
The memory is erased when the ignition is turned off.	The battery wire has not been connected to the proper terminal.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
	The ignition and battery wire are incorrectly connected.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
Free switching of the sound quality.	The system Q function is set on Scan mode.	Refer to the "System Q" page and switch it to a function other than Scan mode. (see p. 6).
Audio control setting cannot be achieved.	The system Q function is set on Scan mode.	Refer to the "System Q" page and switch it to a function other than Scan mode.(see p. 6).

PROBLEM	POSSIBLE CAUSE	SOLUTION
No sound can be heard, or the	Attenuator is turned on.	Turn off Attenuator.
volume is low	The fader or balance settings are set all the way to one side.	Reset the fader or balance settings.
	The input/output wires or wiring harness are connected incorrectly.	Reconnect the input/output wires or the wiring harness correctly. See the section on "Connecting Wires to Terminals".
	The cassette tape is bad.	Try playing another cassette tape. If works fine, the first tape was bad.
·	The values of Volume offset are low.	Increase the values of Volume offset. (see p. 7)
The tape does not go in. / No sound can be heard even though the tape display is made.	The car ignition was turned off during tape eject; or the tape was pulled out during loading, switching the mode to tape mode even though no tape is in.	Press the Eject button.
The sound quality is poor or distorted.	The tape head is dirty.	Clean the tape head, referring to the section on "Cleaning the tape head" (see p. 4).
	One of the speaker wires is being pinched by a screw in the car.	Check the speaker wiring.
-	The speakers are not wired correctly.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
Can't remove tape.	The cause is that more than 10 minutes has elapsed since the vehicle ACC switch was turned OFF.	The tape can only be removed within 10 minutes of the ACC switch being turned OFF. If more than 10 minutes has elapsed, turn the ACC switch ON again and press the Eject button.

# **Troubleshooting Guide**

# External disc control mode

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc control mode cannot be selected.	No wire has been connected to the disc changer input terminal on the unit.	Connect the wire to the disc changer input terminal on the unit.
The specified disc does not	The specified CD is quite dirty.	Clean the CD.
play, but another one plays instead.	The CD is upside-down.	Load the CD with the labeled side up.
	The disc is loaded in a different slot from that specified.	Eject the disc magazine and check the number for the specified disc.
	The disc is severely scratched.	Try another disc instead.
The sound skips.	Something is touching the disc changer.	Remove whatever is touching it.
	The CD is scratched or dirty.	If skipping happens at the same place when the car is stopped, something with the CD is wrong. Clean the CD.
The display shows that the changer is being played, but no sound can be heard.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 4).
The specified track will not play.	Random play or magazine random play has been selected.	Turn off random play or magazine random play.
Track repeat, disc repeat, track scan, random play, and magazine random play start by themselves.	The setting is not cancelled.	The settings for these functions remain on until the setting to off or the disc ejected, even if the power is turned off or the source changed.
Cannot play CD-R or CD-RW	Finalization processing is not being conducted for CD-R/CD-RW.	Conduct finalization processing with CD recorder.
	A non-compatible CD changer is being used to play the CD-R/CD-RW.	Use a CD changer compatible with CD-R/CD-RW to play.

# If the following situations, consult your nearest service center:

- Even though the disc changer is connected, the Disc Changer Mode is not on, with "AUX" showing in the display during the Changer Mode.
  Even though no device (KCA-S210A, CA-C1AX, KDC-CPS87, KDC-CX87, KDC-CX85, KDC-CX85, KDC-CX82) is connected, the AUX Mode is entered when switching modes.

# **Troubleshooting Guide**

# The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

Eject No disc magazine has been loaded in the changer. The disc magazine is not completely loaded.

 $\Rightarrow$  Load the disc magazine properly.

No CD in the unit.

⇒ Insert the CD

No Disc No disc has been loaded in the disc magazine.

⇒ Load a disc into the disc magazine.

TOC Error No disc has been loaded in the disc magazine.

⇒ Load a disc into the disc magazine.

The CD is guite dirty. The CD is upside-down. The CD is scratched a lot.

⇒ Clean the CD and load it correctly.

Blank DISC Nothing has been recorded on the MD.

No Tr DISC No tracks are recorded on the MD, although it has a title.

NO PANEL The faceplate of the slave unit being connected to this unit has been removed.

⇒ Replace it.

E-77 The unit is malfunctioning for some reason.

⇒ Press the reset button on the unit. If the "E-77" code does not disappear, consult your nearest service center.

Mecha Error Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.

⇒ Check the disc magazine. And then press the reset button on the unit. If the "Mecha Error" code does not disappear,

consult your nearest service center.

Hold Error The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F),

stopping all operation.

⇒ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F),

the disc will start playing again.

IN If this indicator continues blinking, it is possible that the tape has become jammed or tangled.

⇒ Contact the Kenwood dealer if the cassette tape cannot be ejected.

# **Specifications**

# Specifications subject to change without notice.

# FM tuner section

Frequency range (200 kHz space)	87.9 MHz -107.9 MHz
Usable sensitivity (S/N = 30dB)	9.3 dBf (0.8 μV/75 Ω)
Quieting Sensitivity (S/N = 50dB)	15.2 dBf (1.6 μV/75 Ω)
Frequency response (±3 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	70 dB
Selectivity (±400 kHz)	≥ 80 dB
Stereo separation (1 kHz)	40 dB

#### AM tuner section

Frequency range (10 kHz space)	)530 kHz – 1700 kHz
Usable sensitivity $(S/N = 20dB)$	28 dBμ (25 μV)

# Cassette player section

Tape Speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.08 %
Frequency response (±3 dB) (70 µs)	30 Hz – 20 kHz
Separation (1 kHz)	43 dB
Signal to Noise ratio	
Dolby NR OFF	57 dB
Dolby B NR ON	65 dB

# Audio section

Maximum output power	47 W × 4
Full Bandwidth Power (at less than 1% THD)	22 W × 4
Tone action	
Bass:	100 Hz ±10 dB
Middle:	1 kHz ±10 dB
Treble :	10 kHz ±10 dB
Preout level / Load (during disc play)	1800 mV / 10 kΩ
Preout impedance	≤ 600 Ω

## General

Operating voltage (11 - 16V allowable	e)14.4 V
Current consumption	10 A
Installation Size (W x H x D)	
	(7-3/16 x 2-1/16 x 6-1/8 in.)
Weight	3.5 lbs (1.5 kg)

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